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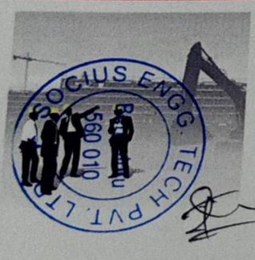
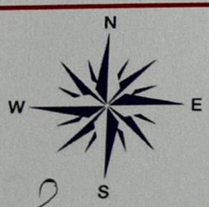
PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.25mm
2	Inner Diameter	38.10mm
3	Outer Diameter	42.60mm
4	Weight / Meter	1.880Kg

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore





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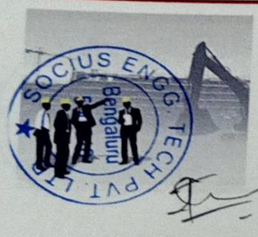
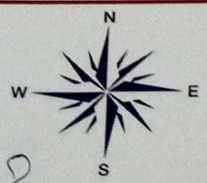
TEST REPORT ON COMPRESSIVE STRENGHTH OF HEAVY DUTY COBBLE STONE

Name of work:	Package No-10 1. Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2. Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3. Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4. Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Duo marvels Layout And Nisarga Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 1999), SP 24:1983
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92





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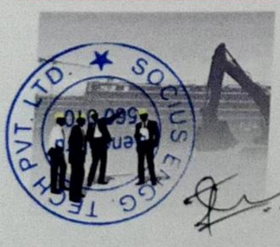
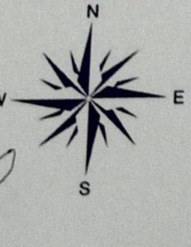
Sl No	Sample Diamention,Sq Cm	Sample Thickness,mm	Compressive Strength Heavy Duty Cobble Stone
1	260.75	58	281.23
2			286.05
3			276.15
4			286.24
5			279.36
6			282.31
7			281.45
Average Compressive Strength Kg/Sq.cm			281.82
Required Compressive Strength Kg/Sq.cm			281.00

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP





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TEST REPORT ON COMPRESSIVE STRENGHTH OF HEAVY DUTY COBBLE STONE

Name of work:	Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Duo marvels Layout And Nisarga Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 1999), SP 24:1983
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Sl No	Sample Diamention,Sq Cm	Sample Thickness,mm	Compressive Strength Heavy Duty Cobble Stone
1	260.75	58	280.43
2			284.54
3			280.28
4			285.44
5			273.42
6			283.41
7			281.45
Average Compressive Strength Kg/Sq.cm			281.28
Required Compressive Strength Kg/Sq.cm			281.00

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT ON COMPRESSIVE STRENGHTH OF HEAVY DUTY COBBLE STONE

Name of work:	Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Vivekananda Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 1999), SP 24:1983
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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Sl No	Sample Diamention,Sq Cm	Sample Thickness,mm	Compressive Strength Heavy Duty Cobble Stone
1	260.75	58	276.22
2			283.05
3			283.25
4			285.34
5			284.46
6			279.21
7			278.35
Average Compressive Strength Kg/Sq.cm			281.42
Required Compressive Strength Kg/Sq.cm			281.00

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT ON CONCRETE CORE (KERB STONE)

Name of work:	Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Vivekanada Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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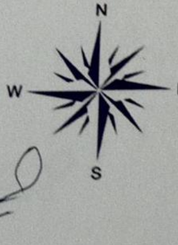
Sl. No	Dia of Core D (MM)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (Kg/m³)	H/D	Correction Factor (Based on H / D)	Failure Load (KN)	Core strength(N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive Strength(N/mm²)	Equivalent Cube Compressive Strength(N/mm²)
1	50.00	78.00	0.385	2513.83	1.56	0.950	25.15	12.81	13.89	13.14	16.43
2	50.00	79.00	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80.00	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Ba[illegible]02



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TEST REPORT ON CONCRETE CORE (KERB STONE)

Name of work:	Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Duo marvels Layout And Nisarga Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone

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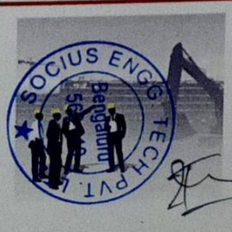
Sl. No	Dia of Core D (MM)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (Kg/m³)	H/D	Correction Factor (Based on H / D)	Failure Load (KN)	Core strength(N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive Strength(N/mm²)	Equivalent Cube Compressive Strength(N/mm²)
1	50.00	78.00	0.385	2513.83	1.56	0.950	25.15	12.81	13.89	13.14	16.43
2	50.00	79.00	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80.00	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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TEST REPORT ON CONCRETE CORE (KERB STONE)

Name of work:	Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Duo marvels Layout And Nisarga Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	05/04/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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Sl. No	Dia of Core D (MM)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (Kg/m³)	H/D	Correction Factor (Based on H / D)	Failure Load (KN)	Core strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive Strength(N/mm²)	Equivalent Cube Compressive Strength(N/mm²)
1	50.00	78.00	0.385	2513.83	1.56	0.950	25.15	12.81	13.89	13.14	16.43
2	50.00	79.00	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80.00	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

Asst. Executive Engineer
Project Division
Yelahanka Zone

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TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID BLOCK

Name of work:	Package No-10 1. Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2. Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3. Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4. Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division
Location:	Nisarga Park
Client:	Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore
Name of the Agency:	Sri. N. Jagadish
Reference:	EE(Project)/Ynk Zone/WO/179/2020-21
Condition of Samples:	400mm x 200mm x 200mm (No. of tested Blocks 3) Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/02/2022
Date of Submission:	19/05/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Sl. No	Date of Sampling	Date of Testing	Area of Cube	Failure Load	Compressive Strength	Minimum Required individual units
			mm^2	KN	N/mm^2	N/mm^2
1	18/02/2022	25/02/2022	80000	440	5.5	5.5
2	18/02/2022	25/02/2022	80000	450.24	5.6	
3	18/02/2022	25/02/2022	80000	438.32	5.4	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division

location : Vivekananda Park

Client: Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore

Work Order No:- EE(PROJECT)/YNK ZONE/WO/179/2020-21

Agency: Sri. N. Jagadish

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 28 Days
Date of casting	: 19/02/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 63

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Concrete for culvert and Drains

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	19/02/2022	19/03/2022	506.3	22.50	22.47
2	19/02/2022	19/03/2022	492.0	21.87	
3	19/02/2022	19/03/2022	518.4	23.04	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division

location : Vivekananda Park

Client: Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore

Work Order No:- EE(PROJECT)/YNK ZONE/WO/179/2020-21

Agency: Sri. N. Jagadish

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 28 Days
Date of casting	: 11/02/2022 , 19/02/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Concrete for culvert and Drains

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	11/02/2022	11/03/2022	500.00	22.22	22.023
2	11/02/2022	11/03/2022	493.00	21.91	
3	11/02/2022	11/03/2022	493.6	21.94	

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	19/02/2022	19/03/2022	506.3	22.50	22.103
2	19/02/2022	19/03/2022	492.0	21.87	
3	19/02/2022	19/03/2022	493.6	21.94	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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AN ISO 9001: 2015, MSME. CERTIFIED COMPANY

TEST REPORT ON M20 GRADE CONCRETE

Name of work: Package No-10 1.Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division 2.Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division 3.Improvements to Parks at 21st Main Judicial Layout in ward No. 04 of Yelahanaka Satelite Town Sub Division 4.Improvements to Parks in Ward No.04 in Yelahanaka Satelite Town Sub Division

location : Vivekananda Park

Client: Assistant Executive Engineer, Yelahanka Project BBMP, Bangalore

Work Order No:- EE(PROJECT)/YNK ZONE/WO/179/2020-21

Agency: Sri. N. Jagadish

Size of cubes	: 150 x150 x 150 mm
Cross Sectional area	: 22500 mm2
Grade of concrete	: M20
Compressive Strength as on	: 28 Days
Date of casting	: 10/03/2022

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

#363, 19th Main Road, 1st Block,
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